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Title:
Perfect score:
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No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Database
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     22469
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 RRPL_SV41
VDR_CHICK
CLR3_RAT
SV44_BRARE
EMB2_HUMAN
RRPL_P12HT
7UP1_DROME
7UP1_DROME
TRBM_HUMAN
RRPL_P12HT
7UP2_DROME
VDR_MOUSE
VDR_XENLA
VDR_BOVIN
VDR_HUMAN
VE1_HPV40
HUTMAN
COT1_MOUSE
COT1_HOUSE
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COT1_GOUSE
SMCY_HUMAN
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P35341 simian viru
P49701 coturnix co
042392 gallus gall
088278 rattus norv
006725 brachydanio
P55268 homo sapien
P26676 human parai
P16376 drosophila
P16376 drosophila
P07204 homo sapien
042406 gallus gall
P48281 mus musculu
013124 xenopus lae
P13053 rattus norv
028037 bos taurus
P11473 homo sapien
P36727 human papil
P42087 bost taurus
P11473 homo sapien
P36727 human papil
P42087 bost sarus
P11473 homo sapien
O60632 mus musculu
P10589 homo sapien
060637 mus musculu
P10589 homo sapien
091z10 mus musculu
Q9by66 homo sapien
091z10 soybean chi
060353 homo sapien
000446 colletotric
P15627 soybean chi
004859 mus musculu
009462 caenorhabdi
043830 homo sapien
047780 pan troglod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 1
RRPL_SV41
ID RRPL_SV41
AC P35341;
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	44	43	42	41	40	39	38	37	36	35	34
	62 62	62	62.5	62.5	62.5	62.5	62.5	62.5	63	63	63
	9.6	9.6	9.7	9.7	9.7	9.7	9.7	9.7	9.8	9.8	9.8
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ALIGNMENTS	NR42_XENLA CA34_HUMAN	RM02_YEAST	COT2 RAT	COT2_MOUSE	COT2_HUMAN	COT2_BOVIN	COT2_CHICK	RNK7_HUMAN	RA14_YEAST	SIX3_MOUSE	SIX3_HUMAN
	Q04913 xenopus lae Q01955 homo sapien	P12687 saccharomyc		P43135 mus musculu	P24468 homo sapien	Q9ttr7 bos taurus	Q90733 gallus gall	Q9hlel homo sapien		Q62233 mus musculu	095343 homo sapien

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VΩ	ду 29	Ma Be UQu	SQ	ב ק	ב ב ב ב	S	88	88	88	CC	38	38	38	3 8	88	8	3 8	Z Z	RJ ?	Z Z	RA	RX	<u>ද</u>	8 8	×	88	3 8	0 S	DE	DH.	3 5	3 5	3 2
54 DWFLRAPRRKEMTVSGLPKKQCPCDHFKGNVKKTRHQRHH-RKPNKHSR 101	13 PLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECK 53	Query Match 12.0%; Score 77; DB 1; Length 2269; Best Local Similarity 27.5%; Pred. No. 3.8; Matches 30; Conservative 12; Mismatches 31; Indels 36; Gaps 6;	SEQUENCE 2269 AA; 256429 MW; 3BD60C14AA161F5B CRC64;	InterFro; iFROUTULE; VITAL_RNA_POL_L. Pfam; PF00946; PETamyx_RNA_Pol; 1. Prancferror. Dun-directed by pol; 1.	PIR, JQ1750; CMM9309:1; Tito-Tipo 11700: Vi-ti Tivo 1170	V	entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).	ified and this statement is not removed	use by non-profit institutions as long as its content is in no way	between the Swiss Institute of Bioinformatics and the EMBL outstation -	PROT ent	-I- SIMILARITY: WITH L PROTEIN OF OTHER PARAMYXOVIRUSES.	[RNA](N).	-1- CATALYTIC ACTIVITY: N nucleoside triphosphate = N diphosphate +	SYNTHESIS OF NEWLY SYNTHESIZED VIRAL MRNAS, RNA EDITING OF THE P	FUNCTION IN MRNA SYNTHESIS, CAPPING, METHYLATION AND P	-!- FUNCTION: PROBABLE COMPONENT OF THE ACTIVE POLYMERACE IT MAY	proteins of paramyxoviruses.";	the large (L) protein and construction of a phylogenetic tree for the	commond and write of the similar wines (1 common	Ogawa M., Mutsuga N., Tsurudome M., Kawano M., Matsumura H.,	MEDLINE=93019033; PubMed=1328485;	STRAIN=Toshiba/Chanock;	SPONTENCE EROM N D	NCBI_TaxID=11228;	Paramyxoviridae; Paramyxovirinae; Rubulavirus.	Viriagos ospun nogativi.	Cimian virus A1 (SVA1)		ise beta si	01 UON-1994 (Rel. 41. Last annotation undate)	(Rel. 29, Creat	30

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                                                                                                                          Query Match
Best Local
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                                                                                                                                                                                                                   DOMAIN
SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMART; SM00430; HOLI; 1
SMART; SM00399; ZnF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by ancentitles requires a license agreement (See http://www.isb-sentitles.requires a license agreement (See
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PROSITE; PS00031; NUCLEAR_RECEPTOR; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS; PR00047; STROIDFINGER. ProDom; PD000035; Znf_C4steroid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pfam; PF00104; hormone_
Pfam; PF00105; zf-C4; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; U12641; AAA56725.1; HSSP; O75469; IILG.
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TISSUE-Chorioallantoic
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01-FEB-1996 (Rel. 33, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zinc-finger;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001628; Znf_C4steroid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               or send an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=95062315; PubMed=7972109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Archosauria; Aves;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Coturnix coturnix japonica (Japanese quail).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VDR_COTJA
P49701;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VDR OR NR1I1.
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ALTERNATIVE PRODUCTS: 2 isoforms; A (shown here) and B; are produced by alternative initiation.
Produced by alternative initiation.
DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL I DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING NOTAL I A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN DOMAIN AND A C-TERMINAL STEROID-BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               c. Natl. Acad. Sci. U.S.A. 91:11596-11600(1994). FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3 THE EXPRESSION OF HORMONE SENSITIVE GENES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NR1 SUBFAMILY.
CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                                                          Similarity
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                                                                                                                                                                                                            110
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                                                                                              Conservative
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                                                                                                                                                                                                                                                  448
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                                                                                                                       11.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rec;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  initiation
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Pred.
                                                                                                                                                                                                                                                  LIGAND-BINDING
                                                                                                                                                                                                                                                                                                           FOR ISOFORM B.
NUCLEAR RECEPTOR-TYPE
C4-TYPE.
C4-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                      VITAMIN D3
VITAMIN D3
                                                                                                                                                                                                                                                                                  HINGE
                                                                                                                                                                                                                   FCF1FC3DEAEEAF3E CRC64;
                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               RECEPTOR,
                                                                                                                                                                                                                                                                                                                                                                                                                                   RECEPTOR,
                                                                                                                                                       DB
                                                                                              15;
                                                                                                                                                    1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nuclear protein;
                                                                                                                                                       Length
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                                                                                              23;
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                                                                                           Gaps
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15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 37, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
V<sup>4+</sup>>min D3 receptor (VDR) (1,25-dihydroxyvitamin
CHAIN
CHAIN
INIT_MET
DNA_BIND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lu Z., Hanson K., Deluca H.F.; "Cloning and origin of the two forms of chicken vitamin D receptor."; Arch. Biochem. Biophys. 339:99-106(1997).
                                                                                                                                                                                                          PRINTS; PRO0047; STROIDFINGER PTODOM; PD000035; Znf_C4stero: SMART; SM00430; HOLI; 1. SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             or send an email to license@isb-sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      use by non-profit institutions as long modified and this statement is not removed entities requires a license agreement (See
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. (ISOFORMS A AN STRAIN-Leghorn; TISSUE-Kidney; MEDLINE-97223369; PubMed-905639; Lu Z., Hanson K., Deluca H.F.;
                                                                                                                                                                                                                                                                                                                                          InterPro; IPROULDZo; ....__...
Pfam; PF00104; hormone_rec;
                                                                                                                                                                                                                                                                                                                                                                                         TRANSFAC; T00884; -.
InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001628; Znf_C4steroid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It between the Swiss Institute of Bioinfo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE OF 45-114 FROM N.A. MEDLING-87149040; PubMed-3029866; MCDonnell D.P., Mangelsdorf D.J.,
                                                                                                                                                  Receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -!- SUBCELLULAR LOCATION: Nuclear.
-!- ALTERNATIVE PRODUCTS: 2 isoforms;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Molecular cloning of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             O'Malley B.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9031;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gallus gallus (Chicken)
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PRODUCED BY ALTERNATIVE EXPRESSED IN KIDNEY AND INTESTINE.

TISSUE SPECIFICITY: EXPRESSED IN KIDNEY AND INTESTINE.

DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN: COMPOSED OF THREE DOMAINS. A TRROID-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN AND A C-TERMINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CEGCKGFFRRSMKRKAMFT--
                                                                                                                                                                                                                                                                                                                                PF00105; zf-C4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      075469;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AF011356; AAB62579.1;
                                                                                                                                                  PS00031; NUCLEAR_RECEPTOR;
; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Aves;
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                                                                                                                                                                                                                                                                        Znf_C4steroid;
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                                                                                                                         initiation
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                        VITAMIN D3 RECEPTOR, VITAMIN D3 RECEPTOR, FOR ISOFORM B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 --CP---FSGDCKITKDNR-----RHCQACR--LK 102
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; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      is produced through
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Usage
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Best Local
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13-JUN-2002 (Rel. 41, Last annotation update
Cadherin EGF LAG seven-pass G-type receptor
epidermal growth factor-like domains 2)
CELSR3 OR MEGF2.
Rattus normal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZN_FING
ZN_FING
DOMAIN
DOMAIN
                                                                                                                    use by non-profit institutious us and modified and this statement is not removed. entities requires a license agreement (See arrend an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                      STRAIN-Sprague-Dawley; TISSUE-Brain;
MEDLINE-9836089; PubMed-9693030;
Madayama M., Nakajima D., Nagase T., Nomura N., Seki N., Ohara
"Identification of high-molecular-weight proteins with multipl
EGF-like motifs by motif-trap screening.";
Genomics 51:27-34(1998).
-i- FUNCTION: Receptor that may have an important role in cell
signaling during nervous system formation.
-i- SUBCELILULAR LOCATION: Integral membrane protein.
-i- TISSUE SPECIFICITY: Expressed in the brain. Expressed in
cerebrellum, olfactory bulb, cerebral cortex, hippocampus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLR3_RAT
088278;
                       InterPro;
InterPro;
                                                                                                EMBL;
                                                                                                                                                                                             This
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
             InterPro;
                                           InterPro;
                                                       InterPro;
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                                                                                                                                                                                                                Drain Stem.

SIMILARITY: BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RECEPTORS SIMILARITY: CONTAINS 9 CADHERIN DOMAINS.

SIMILARITY: CONTAINS 8 EGF-LIKE DOMAINS.

SIMILARITY: CONTAINS 1 LAMININ G-LIKE DOMAINS.

SIMILARITY: CONTAINS 1 LAMININ EGF-LIKE DOMAIN.

SIMILARITY: CONTAINS 1 GPS DOMAIN.
                                                                                                                                                            s SWISS-PROT entry is copyright. It is produced through a collaboration ween the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QC----QLRSFAL 117
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                                                                                               AB011528;
P00740; 1E
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                 IPR002126;
IPR000561;
IPR000742;
IPR001881;
IPR000832;
                                                                                      IPR000152;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           67
107
215
451
51299 1
                                                                                                          BAA32459.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Chordata;
Rodentia;
                                                                Cadherin.
EGF-like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11.6%;
32.9%;
                                 EGF_Ca.
GPCR_secretin.
                                                                                     Asx_hydroxyl.
            hormn_receptor.
Laminin_EGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      W.
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C4-TYPE.
HINGE.
LIGAND-BINDING.
LIGAND-BEA6C8D8E5FC C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. 1.5;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 74.5;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                          Craniata; Ver
Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -CP---FNGDCKITKDNR-----RHCQACR--LK 105
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              update)
                                                                                                                                                                                                                                                                                                                                                                                                                                           Vertebrata; I
thi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DВ
                                                                                                                                       http://www.isb-sib
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15;
                                                                                                                                                  Usage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              precursor (Multiple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CRC64;
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; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                   multiple
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                                                                                                                                                                                                                                                                                                                                                                              Ohara
                                                                                                                                                                                                                                                                                                                                    cell/cell
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                                                                                                                                                     commercia
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   SMART; SM00112;
SMART; SM00180;
SMART; SM00001;
 DOMAIN
DISULFID
DISULFID
DISULFID
DISULFID
DISULFID
                                                                                                                                      DOMAIN
DOMAIN
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TRANSMEM
DOMAIN
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TRANSMEM
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PROSITE;
PROSITE;
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SMART; S
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DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G-protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PROSITE;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SMART;
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                                                                                                                                                                                                                                                                                                                         DOMAIN
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PS00022;
PS01186;
PS50221;
PS50025;
PS00649;
PS00650;
PS50227;
PS50227;
PS50227;
PS50221;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PR002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PS00010;
PS00232;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IPR000203; PKD_cys_rich.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               coupled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    laminin_G;
5; CADHERIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cadherin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HormR;
LamG; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GPS; 1.

LAM_G_DOMAIN; 2.

PROTEIN_RECEP_F2_1; 1

G_PROTEIN_RECEP_F2_2; 1

G_PROTEIN_RECEP_F2_3; 1

G_PROTEIN_RECEP_F2_4; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GPS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EGF_like;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d receptor; Transmembrane; Calcium-binding; Laminin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CADHERIN_
EGF_1; 6.
EGF_2; 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LAMININ_TYPE_EGF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CADHERIN_1;
CADHERIN_2;
                                                                                              ASX_HYDROXYL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            œ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hydroxylation; Signal.
                                                                       EGF-LIKE 1, CALCIUM-BINDING.
EGF-LIKE 2, CALCIUM-BINDING.
EGF-LIKE 3, CALCIUM-BINDING.
EGF-LIKE 4, CALCIUM-BINDING.
LAMININ G-LIKE 1.
EGF-LIKE 5, CALCIUM-BINDING.
EGF-LIKE 5, CALCIUM-BINDING.
EGF-LIKE 7, CALCIUM-BINDING.
EGF-LIKE 8, CALCIUM-BINDING.
GPS.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                CADHERIN
CADHERIN
CADHERIN
CADHERIN
CADHERIN
CADHERIN
CADHERIN
CADHERIN
EGF-LIKE
EGF-LIKE
                                                                                                                                                                                                                                                                    CYTOPLASMIC CADHERIN 1.
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CYTOPLASMIC (
                                                                                                                                                                                                                                                                                                                                                          CYTOPLASMIC
4 (POTENTIAL
                                                                                                                                                                                                                                                                                                   EXTRACELLULAR
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                                                                                                                                                                                                                                                                                                                                                                             3 (POTENTIAL)
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                                                                                                                                                                                                                                                                                                   (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Glycoprotein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     G-TYPE
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SV44_BRARE
ID SV44_B
AC Q06725
DT 15-JUL
DT 15-JUL
DT 15-JUL
DT 15-JUL
OF Steroi
GN SVP44
OS Brachy
OC Eukary
OC Eukary
OC Actino
OC Cyprin
OX NCBI_T
RN [1]
RP SEQUEN
RA FJOSE
RT "Funct
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Best Local S
Matches 35
[1]
SEQUENCE FROM N.A.
MEDLINE-93223680; PubMed-8467797;
MEDCINE-93223680; PubMed-8467797;
Fiose A., Nornes S., Weber U., Mlodzik M.;
Fiose A., Conservation of vertebrate seven-up
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DISULFID
CARBOHYD
                                                                                                                                                                                           SV44_BRARE STANDARD; PRT; 4
Q06725;
15-JUL-1999 (Rel. 38, Created)
15-JUL-1999 (Rel. 38, Last sequence up
15-JUN-2002 (Rel. 41, Last annotation
Steroid receptor homolog SVP 44.
SVP44 OR NRZEI.
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CARBOHYD
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CARBOHYD
CARBOHYD
CARBOHYD
                                                                                                           Brachydanio rerio (Zebrafish)
Eukaryota; Metazoa; Chordata;
Actinopterygii; Neopterygii; T
Cyprinidae; Danio.
CCBI_TaxID=7955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1978
                                                                                                                                                                                                                                                                                                                                                                                         2088
                                                                                                                                                                                                                                                                                                                                                                                                                                                             2031
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         -CNCDVHKGFDPNCNKTSGQCHCKEFHYRPRGSDSCLPCDCYPVGSTSRSCAPHSGQC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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838
1173
1213
1308
13164
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12073
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1946
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3 AA;
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27.6%;
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BY SIMILARITY.
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                                                                                                                                               ) (Danio rerio).;
Craniata; Vert
Teleostei; Osta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 72.5;
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LINKED (GLCNAC...
LINKED (GLCNAC...
B11DA09517288764
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                                                                                                                                                                                                                                                                                                     411
                                                                                                                                                                                                                                  update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
                                                                                                                                           Vertebrata; Euteleostomi;
Ostariophysi; Cypriniformes;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ----NKHSRACQQFLKQC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              40;
                        related genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
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                          in
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Best Local S
Matches 26
                                                                                                                                                                                                                                                                                            P55268; 016321;
P55268; 016321;
01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Laminin beta-2 chain precursor (S-laminin) (Laminin
                    Genomics [2]
                                      MEDLINE-95213013; PubMed=7698745; Wewer U.M., Gerecke D.R., Durkin M.E., Kurtz K.S., Mattei M.-G., Champliaud M.F., Burgeson R.E., Albrechtsen R.; "Human beta 2 chain of laminin (formerly S chain): cDNA cloning, chromosomal localization, and expression in carcinomas."; Genomics 24:243-252(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA_BIND
ZN_FING
ZN_FING
                                                                                                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
SEQUENCE FROM
                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMART; SM00399; ZnF_C4; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR;
Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS; PR00398; STRDHORMONER.
PRINTS; PR00047; STROIDFINGER.
ProDom; PD000035; Znf_C4steroid;
SMART; SM00430; HOLL; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              use by non-profit institutions as long modified and this statement is not removed: entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR000536;
InterPro; IPR001723;
InterPro; IPR001628;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zinc-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NRNCPID-----QHHRNQCQYCR-----LKKC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PGVA--RGHRDRGQASRR------WLQEGGQECE-CKDWFLRAPRRKFMTVSGLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PGTAGDKGSQNSGQSQQHIECVVCGDKSSGKHYGQFTCEGCKSFFKRSVRRN-LTYTCRA 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     finger;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PF00104; hormone_rec; 1.
PF00105; zf-C4; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                   Ms.

IS (Human).

Metazoa; Chordata; C:

Metazoa; Primates; C:
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Pred. No. 3.2;
L4; Mismatches
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C4-TYPE.
C4-TYPE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (See http://www.isb-sib.ch/announce/
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InterPro; IPRO0186; LamMY.

InterPro; IPRO02049; LamInin_EGF.

InterPro; IPRO02049; LamInin_EGF.

IPRA02049; LamInin_EGF: 13.

IPFAm; PF00053; LamInin_Neerm; 1.

IPRINTS; PR00011; EGF_LAMININ.

IPRO018; P0002082; LamNT; 1.

SMART; SM00180; EGF_Lam; 11.

SMART; SM00180; EGF_Lam; 11.

SMART; SM00186; EGF_1; 10.

PROSITE; PS00122; EGF_1; 10.

PROSITE; PS001248; LAMININ_TYPE_EGF; 12.

IPROSITE; PS01248; LAMININ_TYPE_EGF; 12.
  SIGNAL
CHAIN
DOMAIN
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"The human laminin beta 2 chain (S-laminin): structure, expression fetal tissues and chromosomal assignment of the LAMB2 gene.";
Matrix Biol. 14:489-497(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL;
EMBL;
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HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a clothe the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and foentities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genew; HGNC:
MIM; 150325;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (S-MEROSIN), AND LAMININ-7 (KS-LAMININ).

(SUBCELLULAR LOCATION: EXTRACELLULAR.
TISSUE SPECIFICITY: FOUND IN THE BASEMENT MEMBRANES (MAJOR COMPONENT). S-LAMININ IS CONCENTRATED IN THE SYNAPTIC CLEFT OF THE NEUROMUSCULAR JUNCTION.

DOMAIN: THE ALPHA-HELICAL DOMAINS I AND II ARE THOUGHT TO INTI WITH OTHER LAMININ CHAINS TO FORM A COILED COIL STRUCTURE.

DOMAIN: THE MAININ CHAINS TO FORM A COILED COIL STRUCTURE.

DOMAIN OTHER LAMININ CHAINS TO FORM A COILED COIL STRUCTURE.

DOMAIN STANDARD STANDARD STRUCTURE.

SIMILARITY: CONTAINS 1 LAMININ N-TERMINAL DOMAIN (DOMAIN VI).

SIMILARITY: CONTAINS 1 LAMININ DOMAIN IV.
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THE BETA-2 CHAIN IS A SUBUNIT OF LAMININ-3 (S-LAMININ), LAMININ-4 (S-MEROSIN), AND LAMININ-7 (KS-LAMININ).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUBUNIT: Laminin is a complex glycoprotein, consisting of three different polypeptide chains (alpha, beta, gamma), which are bound to each other by disulfide bonds into a cross-shaped molecule Comprising one long and three short arms with globules at each end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FUNCTION: Binding to cells via a high affinitis thought to mediate the attachment, migrat of cells into tissues during embryonic devel with other extracellular matrix components. SUBUNIT: Laminin is a complex glycoprotein, different polypeptide chains (alpha, beta, g to each other by disulfide bonds into a cross
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Z68155; CAA92279.1; JOINED X7968156; CAA92279.1; JOINED X79683; CAA56130.1; -. S77512; AAB34682.2; -. P02468; IKLO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X79683; CAA56130.1;
S77512; AAB34682.2;
P02468; 1KLO.
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  LAMININ
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N N-TERMINAL (D
N EGF-LIKE 1.
N EGF-LIKE 2.
N EGF-LIKE 4.
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N DOMAIN IV.
N EGF-LIKE 7.
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N EGF-LIKE 11.
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      7UP1_DROME STANDARD; PRT; 543
P16375; Q9VGBO;
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01-AUG-1990 (Rel. 15, Last sequence upda
16-OCT-2001 (Rel. 40, Last annotation up
Steroid receptor seven-up type 1.
SVP OR NR2F3 OR CG11502.
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Best Local
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                                                                                                                                                                                                                                                                                                                                             EMBL; X57559; CAA40788.1; PIR; S16664; S16664.
                                                                                                                                                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-AUG-1992 (Rel. 23, Createu, 01-AUG-1992 (Rel. 23, Last sequence update) 15-JUN-2002 (Rel. 41, Last annotation update) 15-JUN-2002 (Rel. 41, Last annotation update) 15-JUN-2002 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                            Transferase;
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Viruses; ssRNA negative-strand viruses; Mononegavirales;
Paramyxoviridae; Paramyxovirinae; Rubulavirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kawano M., Okamoto K., Nishio M., Ito Y.;
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                                                                                                                                                                                                  421
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EMBL;

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RA Adams D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Adams D.D., Celniker S.E., Holt R.A., Evans C.A., Golle R.F.,
RA George R.A., Lewis S.E., Holt R.A.,
RA George R.A., Lewis S.E., Richards S.A., Sahburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfelffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Mklos G.L.G.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Borkova D., Botchan M.R., Bouck J., Broksteln P., Brottler P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Felschmann W.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Gabart W.M., Glasser K.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Liu X., Mattel B., McIntosh T.C., Kravitz S., Kilp D.D., Lai Z.,
Lang Y., Lai Z., Lang Y., Lai Z.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Hernandez J.R., Kilp D.D., Lai Z.,
RA Harris N., Nober J., Rang R., Hernandez J.R., Hai Z.,
RA Harris N., Holson K.A., Hurch J., 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=20196006; PubMed=10731132;
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Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brach
Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mlodzik M., Hiromi Y., Weber U., Goodman
"The Drosophila seven-up gene, a member
                                                                                                                                                                                                                         SUBCELLULAR LOCATION: Nuclear (Potential).
ALTERNATIVE PRODUCTS: 2 ISOFORMS; TYPE 1 (S
(AC P16376); ARE PRODUCED BY ALTERNATIVE SP
IN THEIR C-TERMINAL PART.
TISSUE SPECIFICITY: EXPRESSED IN A SUBSET O
SIMILARITY: BELONGS TO THE NUCLEAR HORMONE
                                                                                                                                                                                                                                                                                                                                                    CELLS PRECURSORS DURING EYE DEVELOPMENT
                                                                                                       SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EMEUropean Bioinformatics Institute. There are no restroy non-profit institutions as long as its content
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                up gene, a member of the steroid photoreceptor cell fates.";
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member of the
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receptor gene
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Best Local S
Matches 27
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Pfam; PF00105; zf-C4; 1.
PRINTS; PF00105; STRDIORMONER.
PRINTS; PR001047; STROIDFINGER.
PRODOM; PD000035; Znf_C4steroid; 1
SMART; SM00430; HOLL; 1.
SMART; SM00399; Znf_C4; 1.
                                                                                                                                                                                                                                                                                7UP2_DROME STANDARD; PRT; 746 AA.
p16376;
01-AUG-1990 (Rel. 15, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
15-UUL-1999 (Rel. 38, Last annotation update)
5teroid receptor seven-up type 2.
SVP OR NR2F3.
Drosophila melanogaster (Fruit fly).
Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Hexapoda;
Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
MUSCOMOrpha; Ephydroidea; Drosophilia.
NCBI_TaxID=7227;
[1]
the European Bioinformatics Institute. The use by non-profit institutions as long a modified and this statement is not removed. entitles requires a license agreement (See lor send an email to license@isb-sib.ch).
                                                                                                         DNA_BIND
ZN_FING
ZN_FING
SEQUENCE
                                                                          This
                                                                                                                                                                                                                                SEQUENCE FROM N.A.

MEDLINE-90124631; PubMed-2105166;

Mlodzik M., Hiromi Y., Weber U., Goodman C.S.,

"The Drosophila seven-up gene, a member of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PIR; A3269
HSSP; P197
TRANSFAC;
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InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001723; Stdhrmn_receptor.
InterPro; IPR001628; Znf_C4steroid.
                                                               between
                                                                                                                                                                                                                                                                                                                                                                                                                                            DROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
Receptor; Transcription regulation; DNA-binding; Nuclear protein; Zinc-finger; Vision; Alternative splicing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           237
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                                                                                                 NR2 SUBFAMILY.
                                                           SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A32693; I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RGSRNCPID-----QHHRNQCQYCR-----LKKC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQC 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SSSLNPG------VARGHRDRGQASRRWLQEGGQECECKDWFLRAPRRKFMTVSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SQSSNSGSQIDSKQNIECVVCGDKSSGKHYGQFTCEG-----CKSFFKRSVRRN-LTYSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
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200
236
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200 265 NUCLEAR RECEN
200 220 C4-TYPE.
236 260 C4-TYPE
236 260 C4-TYPE
43 AA; 57987 MW; OBC189DCF1/
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26.7%;
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            (See http://www.isb-sib.ch/announce/
                                   There are no rest
                         Usage
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                                                                                                                                                                                                                    Rubin G.M.;
steroid receptor
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                                                                                                           RECEPTOR
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                                                                                                                        NEURAL
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Best Local S
Matches 27
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Pfam; PF00105; zf-C4; 1.
Pfam; PF00105; zf-C4; 1.
PRINTS; PR00047; ERCIDETINGER.
ProDom; PD000035; Znf_C4steroid; 1
SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA_BIND
ZN_FING
ZN_FING
                             "Human thrombomodulin gene is intron of the cDNA and gene predict protein s regulatory control.";
                                                                                                                                                                                                                            Suzuki K., Kusumoto H., Deyashiki Y., Nishioka J., Maruya
Zushi M., Kawahara S., Honda G., Yamamoto S., Horiguchi G.
"Structure and expression of human thrombomodulin, a throreceptor on endothellum acting as a cofactor for protein activation.";
                                                                                                                                                                                                                                                                                                                                                                                         01-APR-1988 (Rel. 07, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Thrombomodulin precursor (Fetomodulin) (TM) (
SEQUENCE FROM N.A
                                                                                                                        "Human thrombomodulin: complete localization of the gene."; Biochemistry 26:4350-4357(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Receptor; Transcription regulation; DNA-b
Zinc-finger; Vision; Alternative splicing
DNA_BIND 200 25 NUCLEAR RECE;
ZN_FING 200 20 C4-TYPE.
ZN_FING 236 260 C4-TYPE.
SEQUENCE 746 AA; 76830 MW; 7F256AFD41
                                                                                                                                                               Wen D., Dittman W.A.,
                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. MEDLINE=88004395; Pubmed=2820710;
                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
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HSSP; P19793; 2NLL.
                                                                                     MEDLINE=87317665; PubMed=2819876;
                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                    EMBO J.
                                                                                                                                                                                                                                                                                                                                NCBI_TaxID-9606;
                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human).
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InterPro; IPR001628; Znf_C4steroid.
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                          Acad.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD;
                                                                                                                                                                            PubMed=2822087;
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Primates;
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26.7%;
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                         U.S.A. 84:6425-6429(1987)
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                                                                                                                                                                                                                                                                                                                                            Catarrhini;
                                                                                                                                                                                                                                                                                                                                                         Craniata; Vertebrata; Euteleostomi;
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                                                                                                                                                   Deaven L.L., Majerus P.W., Sadler cDNA sequence and chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7F256AFD4165326D CRC64,
                                               soff G., depleted:
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                                               , Rosenberg R.D
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Shirai T., Shi Deyashiki Y.,

MEDLINE=88227901; PubMed=2836377;

Yamamoto S.,

Kusumoto

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PADOUNTS P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R., RA Jones M., Stavrides G., Almeida J.P., Babbage A.K., Bagguley C.L., RA Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., RA Beasley J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., RA Beasley J., Barlow K.F., Bates K.P., Carder C., Carter N.P., Clack D., Burtill W.D., Butler A.P., Carder C., Carter N.P., Clack D., Burrill W.D., Butler R.E., Connor R.E., Corby N.R., Clack D., Burrill W.D., Butler R.E., Connor R.E., Corby N.R., RA Clagg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R., RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R., RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R., RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R., RA Clington A.G., Frankland J.A., Fraser A., French L., Garner P., RA Grafham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E., RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J., RA Huntke E., Hunt S.E., Jekosch K., Johnson C.M., Johnson D., RA Huntke E., Hunt S.E., Jekosch K., Johnson C.M., Johnson D., RA Lehvaslaino M.H., Leversha M.A., King A., Knights A., Laird G.K., Lawlor S., RA Lehvaslaino M.H., Leversha M.A., Loyel D.M., Lovell J.D., RA Lehvaslaino M.H., Leversha M.A., Loyel D.M., Lovell J.D., RA Lehvaslaino M.H., Patell R., Pearce T.A.V., Peck A.I., RA Oliver K., Parker A., Patell R., Pearce T.A.V., Peck A.I., RA Oliver K., Parker A., Patell R., Pearce T.A.V., Peck R., Sins S., RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A., RA Whitehead S.L., Whittaker P., Willey D.L., Williams L., Williams S.A., Ra Whitehead S.L., Whittaker P., Willey D.L., Williams S.A., Wilniams S.A.
                            MEDLINE=96276211; PubMed Hrabal R., Komives E.A.,
                                                                                                                                                                                                                                                                                                                                                                                    Meininger D.P., Hunter M.J., Komives E.A.; "Synthesis, activity, and preliminary structure EGF-like domain of thrombomodulin.";
                                                                                                                                              Biochemistry
                                                                                                                                                                                                 thrombomodulin
                                                                                                                                                                                                                                                       Srinivasan
                                                                                                                                                                                                                                                                             MEDLINE=95034791;
                                                                                                                                                                                                                                                                                                               STRUCTURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRUCTURE BY NMR OF 364-407 MEDLINE=96100636; PubMed=85
     "Structural resiliency
                                                                                                                                                                                                                             "Thrombin-bound
                                                                                                                                                                                                                                                                                                                                                                     Protein
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MEDLINE=96007474; PubMed=7559494;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Identification of the predominant glycosaminogly in soluble recombinant human thrombomodulin: pott functionality by glycosyltransferase competition Biochem. J. 295:131-140(1993).
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Grinnell B.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYDRATE-LINKAGE SITE SER-492, AND MUTAGENESIS.
MEDLINE-94029900; PubMed-8216207;
Gerleitz B., Hassell T., Vlahos C.J., Parkinson J.F.
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hiki Y., Maruyama I., Suzuki K.;
structure of human thrombomodulin, a
yzed activation of protein C.";
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, Hu S., Hrabal R., Z
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"A common thrombomodulin
myocardial infarction.";
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Wu K.K., Aleksic
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"The first mutation identified
45-year-old man presenting wit
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                                                                                                                  POLYMORPHISM: VARIATIONS IN THBD ARE ASSOCIATED WITH AN INCR RISK OF DEVELOPING THROMBOEMBOLIC DISEASES (TED).

DISEASE: DEFECTS IN THBD COULD BE THE CAUSE OF INHERITED TED ALSO CALLED INHERITED THROMBOPHILIA. PATIENTS WITH TED HAVE DEFECTS OF THE HAEMOPOIETIC SYSTEM WHICH CREATES A TENDENCY OCCURRENCE OF THROMBOSIS. TED PLAY AN IMPORTANT ROLE IN THE PATHOGRNESIS OF VARTOUS CARDIOVASCULAR DISORDERS.

SIMILARITY: CONTAINS 6 EGF-LIKE DOMAINS.

DATABASE: NAME-PROW; NOTE-CD guide CD141 entry;
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TISSUE SPECIFICITY: EN
                                                                                                        DATABASE: NAME=PROW; NOTE=CD guide CD141 entry; WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd141.htm".
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een the Swiss Institute of Bioinformatics and the El
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N., Ahn C., Boerw
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                                                                                                                               use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation between the Swiss Institute. There are no restrictions on its
                                                                                                                                                                                            -i- FUNCTION: MAY BE INVOLVED IN VISUAL SYSTEM DEVELOPMENT.
-i- SUBCELLULAR LOCATION: Nuclear (By similarity).
-i- SIMILARITY: BELONGS TO THE SIX/SINE OCULIS HOMEOBOX FAMILY.
                                                                                                                                                                                                                                                  Bovolenta P., Mallamaci A., Puelles L., "Expression pattern of cSix3, a member
                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A. MEDLINE=98168856; PubMed=9510037;
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                                                                                                                                                                                                                                                                                                                                                                      sequence update)
annotation update)
oculis homeobox homolog
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Pred. No. 6.
                                                                                                                                                                                                                                                                                                                             Craniata; Vertebrata; Euteleostomi;
; Galliformes; Phasianidae; Phasianinae;
 FALSE_NEG.
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                                                                                                                  http://www.isb-sib.ch/announce/
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InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001638; Znf_C4steroid.
Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; Zf-C4; 1.
PRINTS; PR00047; STROIDFINGER.
PRODOm; PD000035; Znf_C4steroid; 1.
SMART; SM00430; HOLI; 1.
SMART; SM00430; HOLI; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
Receptor; Transcription regulation; DN

TRANSFAC; T00883; -. MGD; MGI:103076; Vdr.

Hormone_rec_lig
Znf_C4steroid.

DNA_BIND ZN_FING ZN_FING

Phosphorylation.
24 89 N
24 44 C

C4-TYPE.

NUCLEAR RECEPTOR-TYPE

DNA-binding; Nuclear protein;

Zinc-finger;

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THE TAKE BRARK BRARK BRAKK BRA
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VDR_MOUSE
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Best Local
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01-FEB-1996
15-JUL-1999
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DOMAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                             EMBL;
                                                                                                                                                                                                                                                                                                                                                                  entities requires a license agreement (s or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                         use by non-profit institu modified and this statement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
MEDLINB=95137405; PubMed=7835717
Kamei Y., Kawada T., Fukuwatari
"Cloning and sequencing of the greceptor.";
Gene 152:281-282(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                 the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. between the Swiss Institute of Bio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -I- FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3
THE EXPRESSION OF HORMONE SENSITIVE GENES.
-I- SUBCELLULAR LOCATION: Nuclear.
-I- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VDR OR NR111.
Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vitamin D3 receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Developmental
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P48281;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A DNA-BINDING DOMAIN AND A C-TERMINAL SIMILARITY: BELONGS TO THE NUCLEAR HOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NR1 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KNRRQRDRAAAAK-NRLQHQAIGQSGMRSLAEP
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                                                                                                                                                                                                                                                                                                           D31969; BAA06737.1;
P03372; 1HCQ.
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245
314 AA;
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248 : 34677 MW;
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Rodentia;
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8, Last annotation update)
(VDR) (1,25-dihydroxyvitamin
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; | Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
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; Murinae; Mus
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O13124;
                                                                                                                                                                                     use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See or send an email to license@lsb-sib.ch).
                                     Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.
PRINTS; PR00047; STROIDFINGER.
ProDom; PD000035; Znf_C4steroid;
SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE=Kidney; MEDLINE=97307679; PubMed=9165021;
                                                                                                                                                   EMBL; U91846; AAB58585.1; HSSP; O75469; 1ILG.
                                                                                                                                                                                                                                                                                                                                                                                                                 Endocrinology 138:2347-2353(1997).
1- FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3
THE EXPRESSION OF HORMONE SENSITIVE GENES.
-I- SUBCELLULAR LOCATION: Nuclear.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-DEC-1998
15-DEC-1998
15-JUL-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Xenopus laevis (African clawed frog).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VDR OR NR111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vitamin D3 receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
             Receptor;
                           PROSITE; PS00031; NUCLEAR_RECEPTOR;
                                                                                                                                     InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Li Y.C., Bergwitz C., Jueppner H., Demay M.B.; "Cloning and characterization of the vitamin D receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kenopodinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       laevis.
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DEVELOPMENTAL STAGE: FIRST DETECTED AT STAGE 13
GRADUALLY AND PEAKS AT STAGE 57-61 THEN DECREAS
                                                                                                                                                                                                                                                                                                           A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDIN SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR
                                                                                                                                                                                                                                                                                                                                    SEEN IN ADULT:
DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
                                                                                                                                                                                                                                                                                               NR1 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        QC----QLRSFAL 117
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                                                                                             PF00104;
PF00105;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                      IPR000536; Hormone_rec_lig.
IPR001628; Znf_C4steroid.
            Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90
187
422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (Rel. 37, Created)
(Rel. 37, Last sequence update)
(Rel. 38, Last annotation update)
receptor (VDR) (1,25-dihydroxyvitamin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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422
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30.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LIGAND-BINDING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CP---FNGDCRITKDNR-----RHCQACR--LK 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4704CC8172445732
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            DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                422
                                                                                                                                                                                                    moved. Usage by and for commercial
  (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A
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                                                                                                                                                                                                                                                                                                                          STEROID-BINDING
                                                                                                                                                                                                                                                                                                                                                                             STAGE 13
                                                                                                                                                                                                                                                                                                                                                                DECREASES
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                                                                                                                                                                                                                Usage
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                                                                                                                                                                                                                                                                                                                                                                                                       HIGHEST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA_BIND
ZN_FING
ZN_FING
DOMAIN
                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced univeys. between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no rest the European Bioinformatics Institutions as long as its content in the second of the s
                                                                                                                                                                                                                                                     use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Proc. Natl. Acad. Sci. U.S.A. 85:1005-1009(1988)
-i- FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN
THE EXPRESSION OF HORMONE SENSITIVE GENES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JAN-1990 (Rel. 13, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-JAN-1990
01-JAN-1990
                                                                                                                                                                                       EMBL;
                                                                                                                                                                                                                                   or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDNA."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                           A DNA-BINDING DOMAIN AND A C-TERMINAL STERC-I- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE

    -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL
A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMA.

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Burmester J.K., Maeda N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=88124963;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Burmester J.K., Wiese R.J
"Structure and regulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VDR OR NR1I1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VDR_RAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Isolation and expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE OF 58-423 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Proc. Natl.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=89071726; PubMed=2849110;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         84 RCVDIGMMKEFIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           42 CEGCKGFFRRSMKRKAMFT-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 50 CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUBCELLULAR LOCATION: Nuclear
                                                                                                                                                                                                                                                                                                                                                                                                         NR1 SUBFAMILY.
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                                                                                                                                                                                       J04147; AAA41089.1;
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422
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PubMed=2829212;
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30.1%;
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of rat 1,25-dihydroxyvitamin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Maeda N.,
of the rat 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13;
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HINGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. 6;
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 68.5;
Pred. No. 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LIGAND-BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEAR RECEPTOR-TYPE. C4-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Euteleostomi;
Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      85:9499-9502(1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C8A9F25414FEE9D5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rat 1,
                                                                                                                                                                                                                                                                                                                                                               It is produced through
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    423
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1,25-dihydroxyvitamin
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                                                                                                                                                                                                                                                 http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1:
                                                                                                                                                                                                                                                                           Usage
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                                                                                                                                                                                                                                                                                                                                                                                                                             RECEPTOR FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CRC64;
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                                                                                                                                                                                                                                                                                                                                             collaboration -
L outstation -
                                                                                                                                                                                                                                                                                                                                           outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
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TRANSFAC; T00882; -.
InterPro; IPR000536; Hormone_r.
InterPro; IPR001628; Znf_C4ste
Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.

Znf_C4steroid.

PIR; A31761; A31761. PIR; A31367; A31367. HSSP; P03372; 1HCQ.

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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BOVIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA_BIND
ZN_FING
ZN_FING
                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE-97034797; PubMed-8880453;
Meibergs H.L., Bosworth B.T., Reinhardt T.A.;
"Nucleotide sequence of the bovine vitamin D3 receptor.";
J. Dairy Sci. 79:1313-1315(1996).
--- FUNCTION: VDR MEDIATES THE ACTION OF VITAMIN D3 BY CONTROLLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VDR_BOVIN
Q28037;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
Receptor; Transcription regulation; DNA-binding; Nuclear protein; Zinc-finger; Phosphorylation.
              PRINTS: PRO0047; STROIDFINGER.
ProDom; PD000035; Znf_C4steroid;
SMART; SM00430; HOLI; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                           Pfam; PF00104; hormone_rec;
Pfam; PF00105; zf-C4; 1.
                                                                                                                                      EMBL; U50200; AAB01543.1; HSSP; 075469; IILG.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea; Bovidae; Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin D3 receptor)
VDR OR NRIII.
                                                                                                         InterPro; IPR000536;
InterPro; IPR001628;
                                                                                                                                                                                                                                                                                                                            +
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bos taurus (Bovine).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41 CEGCKGFFRRSMKRKALFT------CP---FNGDCRITKDNR-----RHCQACR--LK 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    50 CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                                                                                                                                                                                                                                                      THE EXPRESSION OF HORMONE SENSITIVE GENES.
SUBCELLULAR LOCATION: NUCLEAT.
DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
                                                                                                                                                                                                                                                                                                           NR1 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RCVDIGMMKEFIL 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PD000035;
PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7; Phosphorylation.
24 89
24 44 C
60 84 C
90 187 H
188 423 L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 423 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Znf_C4steroid;
                                                                                                                                                                                                                            rmatics Institute. There are no rest institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 47813 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10.6%;
                                                                                                         Hormone_rec_lig.
Znf_C4steroid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C4-TYPE.
C4-TYPE.
HINGE.
LIGAND-BINDING.
LIGAND-BINDING.
M; lAOE519A9DCCE990 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 68.5;
Pred. No. 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEAR RECEPTOR-TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ۲
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 424 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 423;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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멍
                                                                                      Matches
                                                                                                          Query Match
                                                                                                                                                             Receptor; Transcription regulation; DNA-binding; Nuclear protein; Zinc-finger; Phosphorylation.
DNA_BIND 21 86 NUCLEAR RECEPTOR-TYPE.
ZN_FING 21 41 C4-TYPE.
ZN_FING 57 81 C4-TYPE.
CN_FING 57 81 C4-TYPE.
                                                                                                                                           DOMAIN
DOMAIN
                                                                                                                                SEQUENCE
                     109 QC----QLRSFAL 117
80 RCVDIGMMKEFIL
                                           38 CEGCKGFFRRSMKRKALFT------CP---FNGDCRITKDNR-----RHCQACR--LK 79
                                                               50 CE-CKDWFLRAPRRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLK 108
                                                                                                 Local
                                                                                     l Similarity
22; Conserv
                                                                                                                               21
21
57
87
189
189
                                                                                      Conservative
                                                                                                                                          86
41
81
188
424
92
                                                                                                10.6%;
                                                                                                                                 47957
                                                                                                                                 MW;
                                                                                      13;
                                                                                                 Score 68.5;
Pred. No. 6;
                                                                                                                                LIGAND-BINDING.; E9E24926CE38CB7D CRC64;
                                                                                                                                                      HINGE.
                                                                                      Mismatches
                                                                                                          DB 1;
                                                                                      15;
                                                                                                          Length 424;
                                                                                      Indels
                                                                                      23;
                                                                                    Gaps
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6

Search completed: April 16, 2003, 12:15:33 Job time : 16 secs

